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| FORM PTO-1390<br>MODIFIED   | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER<br><b>36-2014</b>  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>         DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>         CONCERNING A FILING UNDER 35 U.S.C. 371</b> |   | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)<br><div style="font-size: 2em; font-weight: bold; text-align: center;">10/593589</div> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/GB2005/001009</b>   | INTERNATIONAL FILING DATE<br><b>16 March 2005</b>       | PRIORITY DATE CLAIMED<br><b>31 March 2004</b>   |

TITLE OF INVENTION

**PATHFINDING SYSTEM**

APPLICANT(S) FOR DO/EO/US

**TRIMBY et al**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The U.S. has been elected (Article 31).
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2).
  - a. ☒ WO 2005/096223 A2 is attached hereto (42 pages specification, claims & abstract (50 claims), 17 sheets drawings).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(3)
  - a. ☐ is attached hereto (        pages specification, claims & abstract (        claims),        sheets drawings,        page Certificate of Translation).
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has **NOT** expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3).
9.
  - a. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4).
  - b. ☐ Declaration was submitted to the International Bureau during International Phase (see copies of Declaration (        page Form PCT/RO/101 and Form PCT/IB/371 and first page of printed publication acknowledging receipt thereof attached).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5).  
       **Items 11 To 20 below concern document(s) or information included:**
  11. ☐ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
  12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
  13.
    - a. ☒ A **FIRST** preliminary amendment.
    - b. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
  14. ☐ An Application Data Sheet under 37 C.F.R. § 1.76.
  15. ☐ A substitute specification.
  16. ☐ A change of power of attorney and/or address letter.
  17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
  18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
  19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
  20. ☒ Other items or information. International Search Report and Written Opinion

|  |              |   |                                     |  |                |
|--|--------------|---|-------------------------------------|--|----------------|
| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)<br><b>10/593589</b>   |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/GB2005/001009</b>                     |                                     | ATTORNEY'S DOCKET NUMBER<br><b>36-2014</b> |                |
| <input checked="" type="checkbox"/> The following fees are submitted:  |              |   |                                     |  |                |
| <b>BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5):</b>  |              |   |                                     |  |                |
| 21. <input checked="" type="checkbox"/> Basic national fee .....   |              | \$300.00 (1631)/\$150.00 (2631)   |                                     | \$   | 300.00         |
| 22. <input checked="" type="checkbox"/> Examination Fee.....   |              | \$0 (1643/2643)   |                                     | \$   | 200.00         |
| 23. <input checked="" type="checkbox"/> Search Fee .....   |              | \$0 (1640/2640)   |                                     |  |                |
|  |              | \$100 (1641)/\$50 (2641)  |                                     |  |                |
|  |              | \$400 (1642)/\$200 (2642)   |                                     |  |                |
|  |              | \$500.00 (1632)/\$250.00 (2632)   |                                     | \$   | 400.00         |
| <b>TOTAL OF ABOVE CALCULATIONS</b>   |              |   |                                     | \$   | 900.00         |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |                                     |  |                |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE                                |  |                |
| 0 -100   | 0            | /50 = 0.00  | \$0.00 (1681)                       | \$   |                |
|  |              |   | \$0.00 (2681)                       |  |                |
| Surcharge of \$130.00 (1617)/\$65.00 (2617) for furnishing the oath or declaration later than <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).   |              |   |                                     | \$   |                |
| CLAIMS   | NUMBER FILED | # EXTRA   | RATE                                |  |                |
| Total Claims   | 50           | minus 20 =  | 30 X \$50.00 (1615)/ \$25.00 (2615) | \$   | 1500.00        |
| Independent Claims   | 9            | minus 3 =   | 6 X \$200.00 (1614) \$100.00 (2614) | \$   | 1200.00        |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable)   |              |   | \$360.00 (1616)/\$180.00 (2616)     | \$   | 0.00           |
| Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s): One Month Extension \$120.00 (1251)/\$60.00 (2251); Two Month Extensions \$450.00 (1252)/\$225.00 (2252); Three Month Extensions \$1020.00 (1253)/\$510.00 (2253); Four Month Extensions \$1590.00 (1254)/\$795.00 (2254) |              |   |                                     | \$   | 0.00           |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.  |              |   |                                     |  |                |
| Processing fee of \$130.00 (1618), for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).  |              |   |                                     | \$   | 0.00           |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |                                     | \$   | <b>3600.00</b> |
| Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 (8021) per property   |              |   |                                     | \$   | 40.00          |
| Fee for Petition to Revive Unintentionally Abandoned Application; \$1500.00 (1453) / \$750.00 (2453)   |              |   |                                     | \$   | 0.00           |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |                                     | \$   | <b>3640.00</b> |
|  |              |   |                                     | Amount to be refunded:                     | \$             |
|  |              |   |                                     | Amount to be Charged:                      | \$             |

- a. ☐ A check in the amount of \$3640.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 14-1140 in the amount of \$\_\_\_\_\_ to cover the above fees.
- A duplicate copy of this form is enclosed.

- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed.
- d. ☒ **CREDIT CARD PAYMENT FORM ATTACHED.**
- e. ☒ The entire content of International Application No. PCT/GB2005/001009 and any U.S. and foreign application(s) corresponding thereto, and GB 0407385.4; GB 0407390.4; GB 0407311.0, referred to in this application is/are hereby incorporated by reference in this application.

**NOTE:** Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b) must be filed and granted to restore the application to pending status.

**CORRESPONDENCE ADDRESS**

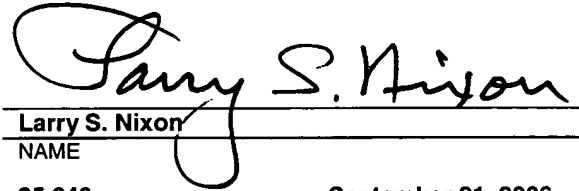
Direct all correspondence to:

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**23117**

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**Larry S. Nixon**

NAME

**25,640**

REGISTRATION NUMBER

**September 21, 2006**

Date